

AMENDMENTS TO THE SPECIFICATION:

(1) Please amend the paragraph on page 2, lines 16-30, as follows:

The arrangement disclosed in EP-A-1 102 399 is a further development over the arrangement described in EP-A-1 102 398 that includes a generalized use of statistical filters. These are used for determining a sequence of state estimates, these states representing the motion of the object to be located. As regards to the Kalman filter, also the "extended" form, for use in non-linear systems, was described. The same document additionally describes the use of statistical filters within purely terrestrial systems (such as Global System for Mobile communications (GSM) GSM and Universal Mobile Telecommunications System (UMTS) UMTS) in addition to mixed satellite-terrestrial systems. Also, EP-A-1 102 399 indicates the possibility of dispensing with statistical methods for pre-validating measurements, which are presented as mandatory in EP-A-1 102 398.

(2) Please amend the paragraph on page 7, lines 23-28, as follows:

By way of introduction to the description of an exemplary embodiment of the arrangement disclosed herein, some basic principles of Kalman filter theory will be briefly ~~summarised~~ summarized here. This is done by referring specifically to the arrangement known as the so-called "Extended Kalman Filter" or, briefly, EKF.

(3) Please amend the paragraph beginning on page 10, line 29, and ending on page 11, line 2, as follows:

Such additional measurement sources may include the altitude information (i.e., the coordinate z) and/or (especially for applications in the automotive field)

measurements indicative of the distance ~~travelled~~ traveled by a motorcar over a given time interval.

(4) Please amend the paragraph on page 13, lines 28-34, as follows:

Reference MCG designates a communication management module currently associated with the mobile network CA. Essentially, the module MCG performs, for example, a number of tasks such as:

- set-up the suitable communication (i.e., for example, Short Message Service (SMS) SMS, or General Packet Radio Service (GPRS) GPRS) between the user U and the terminal MS;
- transmit information through the network.

(5) Please amend the paragraph on page 16, lines 19-31, as follows:

Any of the arrangements disclosed herein can be advantageously adopted in an automotive scenario as schematically shown in figure 4. In that figure, reference M designates a vehicle such as a motorcar equipped with a standard GPS receiver 201 as well as a terminal for terrestrial cellular mobile network 202. The vehicle M is also equipped with measurement system 203 adapted for measurement, e.g., the distance ~~travelled~~ traveled by the vehicle M over a given interval of time. All the elements considered in the foregoing are preferably connected via a bus arrangement. This is preferably in the form of a so-called "CAN BUS" characterized with a high degree of robustness to environment noise.